



Hydraulic Brake Caliper **HSC1P10N**



APPLICATIONS

LRV

KNORR-BREMSE



DESCRIPTION

The new compact passive hydraulic brake caliper, fitted with integrated automatic slack adjustment, is highly suitable for installation in small space envelopes. Its sealed sliding pins make it suitable for operation in harsh environmental conditions.

The application forces can be precisely adjusted. This component is characterized by reduced maintenance effort and high braking comfort; wheel slide protection capability is provided.

OPTIMIZED USE OF MATERIALS

- low weight (approx. 11.7 kg without brake pads and attachment kit). This is about 10% less than comparable brake calipers
- high power density (approx. 2 kN clamping force / kg)
- suitable for small space envelope due to compact design
- precise brake force supports high braking comfort

ENHANCED MAINTAINABILITY

- user-friendly (e.g. easy brake pad replacement, convenient mechanical emergency release, automatic slack adjuster)
- no additional lubrication in service operation necessary

IMPROVED TRAFFIC MANAGEMENT / SAFETY

- integrated automatic slack adjuster
- precise adjustment of the application force to enable wheel slide protection
- hydraulic service and auxiliary release circuits (P and H circuits)
- mechanical emergency release (quick release)
- robust sealing principle

LESS LIFECYCLE COSTS

- optimized for general inspection due to standardized wear parts
- floating pins encased by bellows (-> ensures optimal lifelong floating performance even in harsh environmental conditions)

INCREASED ENERGY EFFICIENCY

- low oil volume / stroke leads to low energy necessary to release / actuate the passive brake caliper

REDUCED EMISSIONS

- tension spring for brake pads available (to avoid noise caused by train vibrations)

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